



United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

PPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/933,972		08/20/2001	Philip Hawkes	010497	7964
23696	7590	05/23/2005		EXAMINER	
Qualcomm	Incorpor	ated	SIMITOSKI, MICHAEL J		
Patents Dep	artment				
5775 Morehouse Drive				ART UNIT	PAPER NUMBER
San Diego, CA 92121-1714				2134	
				DATE MAILED: 05/23/200	•

Please find below and/or attached an Office communication concerning this application or proceeding.

	T					
;	Application No.	Applicant(s)				
Office Action Summary	09/933,972	HAWKES ET AL.				
Office Action Summary	Examiner	Art Unit				
The MAN INC DATE of this communication con	Michael J. Simitoski	2134				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on 28 M	arch 2005.					
2a)⊠ This action is FINAL . 2b)□ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	•					
4) ☐ Claim(s) 1-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-24 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.						
Application Papers 9)☐ The specification is objected to by the Examine	r.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date J.S. Patent and Trademark Office	4) Interview Sumn Paper No(s)/Ma 5) Notice of Inform 6) Other:					

Art Unit: 2134

DETAILED ACTION

1. The response of 3/28/2005 was received and considered.

2. Claims 1-24 are pending.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

4. Claims 1-24 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Regarding claims 1-24, the specification does not describe an out-of-band channel.

Regarding claims 1-10 & 22, the specification does not disclose encrypting the first key with the registration key, sending the unencrypted first key on a broadcast channel, encrypting the second key with the first key and sending the second key on an out-of-band channel. The specification appears to disclose sending an encrypted first key and an encrypted second key over a channel.

Regarding claims 15-21, the specification does not disclose sending a first and second key unencrypted over a channel.

Art Unit: 2134

Regarding claims 15-21, the specification does not disclose the combination of a first key, second key, short-term key and registration key.

Regarding claims 1-14 & 22-24, the specification does not describe the combination of limitations comprising encrypting a first key with a registration key, encrypting a second key with a first key and sending the second key on an out-of-band channel.

Claim Rejections - 35 USC § 101

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

6. Claim 24 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. Claim 24 recites a "digital signal storage device", however a digital signal does not fall under the statutory classes of invention and therefore the elements of the claim are not tangibly embodied. The digital signal storage device will be understood to be equivalent to a digital data storage device for the purposes of this Office Action.

Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Art Unit: 2134

8. Claims 15-16 & 18-21 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 6,690,795 to **Richards**.

Regarding claims 15 & 16, Richards discloses a receive circuitry/set-top box (col. 2, lines 63-66) adapted to receive a first key/CCK_A on a broadcast channel/in-band channel and to receive a second key/CAK_A on an out-of-band channel (Fig. 16), a user identification unit/set-top box (col. 4, lines 55-62), operative to recover a short-time key/SK for decrypting a broadcast message/content (Fig. 16), comprising a processing unit/decryption hardware to decrypt key information (col. 9, lines 11-33), memory storage unit/UEV register for storing a registration key/UEV (col. 11, lines 1-3) and a mobile equipment unit/decryption hardware adapted to apply the short-time key for decrypting the broadcast message/content (col. 4, lines 55-62 & col. 9, lines 11-33).

Regarding claim 18, Richards discloses the memory storage unit storing a broadcast access key/PK and wherein the processing unit decrypts the short-time key/SK using the broadcast access key/PK (col. 12, lines 1-10).

Regarding claim 19, Richards discloses the short-time key/SK being updated at a first frequency (Fig. 16).

Regarding claim 20, Richards discloses the broadcast access key/PK being updated at a second frequency less than the first frequency (Fig. 16).

Regarding claim 21, Richards discloses a video service (col. 2, lines 39-55).

Claim Rejections - 35 USC § 103

Art Unit: 2134

9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

10. Claim 17 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Richards**, as applied to claim 15 above, in further view of U.S. Patent 6,073,122 to **Wool**. Richards discloses storing the registration key/UEV in a memory storage unit (col. 5, lines 60-63), but lacks a secure memory storage unit. However, Wool teaches that set-top boxes often contain secure memory to minimize piracy of encryption keys stored (col. 1, lines 44-52). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to store the first key in a secure memory storage unit. One of ordinary skill in the art would have been motivated to perform such a modification to minimize piracy of encryption keys stored, as taught by Wool (col. 1, lines 44-52).

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

Art Unit: 2134

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

12. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael J. Simitoski whose telephone number is (571) 272-3841. The examiner can normally be reached on Monday - Thursday, 6:45 a.m. - 4:15 p.m.. The examiner can also be reached on alternate Fridays from 6:45 a.m. - 3:15 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Morse can be reached at (571) 272-3838.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks Washington, DC 20231

Or faxed to:

(703)746-7239 (for formal communications intended for entry)

Or:

(571)273-3841 (Examiner's fax, for informal or draft communications, please label "PROPOSED" or "DRAFT")

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2100.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

May 6, 2005

SUPERICORY PATENT EXAMINER
SECHNOLOGY CENTER 2100